Claims:

1. A method for delivering a therapeutic agent to a predetermined location in a host comprising:

providing a therapeutic agent encapsulated in a liposome to a host in need of said agent;

establishing an electrical field which encompasses a predetermined region within said host;

exposing said liposome-encapsulated agent to said electrical field for a time and under conditions sufficient to enhance the release of said agent from said liposome in said predetermined region when compared to the release from liposomes in areas not exposed to said electrical field.

2. A method for pretreating a predetermined location within a host, prior to the application of electroporation-induced drug delivery comprising

establishing an electrical field which encompasses a predetermined region within said host; and

exposing said predetermined region to said electrical field for a time and under conditions sufficient to increase the permeability of cell membranes located within said predetermined region when compared to cell membranes in areas not exposed to said electrical field.

3. A system for electroporation-induced drug delivery comprising

a plurality of electrodes adapted to be located within a predetermined three-dimensional space in a patient, said electrodes arranged to provide a central reference electrode surrounded by a plurality of geometrically-oriented satellite electrodes.

4. A method for decreasing the effect of electroporation pulses on body tissues located outside of a predetermined location in a host comprising:

cooling the tissue of the host to a degree sufficient to reduce the effect of electroporation pulses prior to establishing an electrical field which encompasses a predetermined region within said host; and

exposing said predetermined region to said electrical field for a time and under conditions sufficient to effect treatment to said predetermined region.

5. A method for delivering a therapeutic agent to a predetermined location in a host comprising:

providing a therapeutic agent encapsulated in a surface-charged liposome to a host in need of said agent;

establishing an electrical field which encompasses a predetermined region within said host;

exposing said liposome-encapsulated agent to said electrical field for a time and under conditions sufficient to enhance either the migration of said liposomes to said predetermined region or the adsorption of said liposomes to cell membranes located within said region; and

exposing said liposome-encapsulated agent to said electrical field for a time and under conditions sufficient to enhance the release of said agent from said liposome in said predetermined region when compared to the release from liposomes in areas not exposed to said electrical field.

6. A method for treating body tissues in a predetermined location in a patient, which tissues have been previously subjected to the effect of electroporation pulses comprising:

contacting said previously treated body tissues with at least one agent which is capable of reducing the permeability of cell membranes previously exposed to said electroporation pulses.